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Declarations under Rule 4.17:

— as to the identity of the inventor (Rule 4.17(i)) for the fol-
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BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK,
DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
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NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM,
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DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT,
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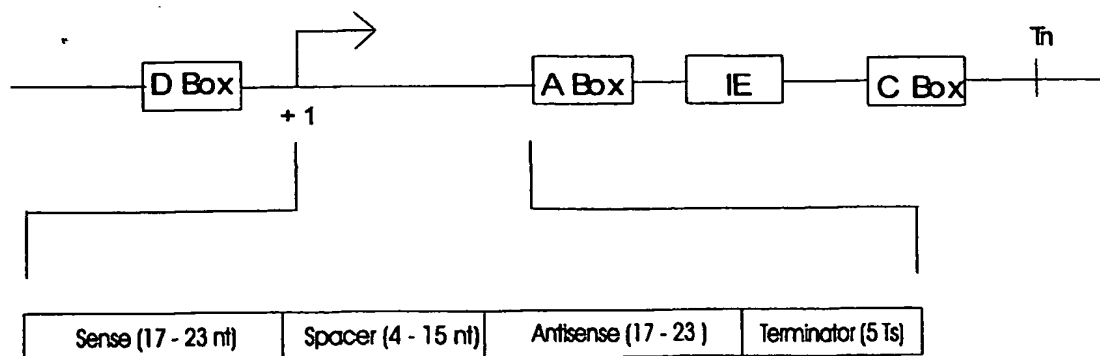
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[Continued on next page]

(54) Title: GENE EXPRESSION SUPPRESSION AGENTS



siRNA Template

(57) Abstract: A method is provided for making gene suppression agents to be used in eukaryotic cells by using a recombinant DNA construct containing at least one transcriptional unit comprising a transcriptional promoter, a template sequence for making a RNA molecule, and a transcriptional terminator. Mechanisms of the RNA mediated gene suppression include, but not limited to, RNA interferences (RNAi). The use of the agents as tools for biomedical research as well as medicinal products is also disclosed.



CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68; C12P 19/34; C12N 15/00; C07H 21/00, 21/02, 21/04

US CL : 435/6, 91.1, 91.5, 320.1; 536/23.1, 24.1, 25.3

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
West, Dialog

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y	WONG-STAAAL, F. Ribozyme gene therapy for HIV infection intracellular immunization of lymphocytes and CD34+ cells with an anti-HIV-1 ribozyme gene, advanced Drug Delivery Rev., Vol. 17, pages 363-368 (1995), p. 363, right col. on p. 364, text on p. 365.	1, 2, 4, 6, 7, 9, 11-14 — 3, 5, 8, 10
X — Y	KUWABARA, t. et al. A novel allosterically trans-activated ribozyme, the maxizyme, with exceptional specificity in vitro and in vivo, Molecular Cell, Vol. 2, pages 617-627 (1998), text on pp. 617-618, fig. 2 and text on p. 619, text on pp. 624-625.	1, 2, 3, 5, 7, 8, 9, 11-14 — 4, 6, 10,



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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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